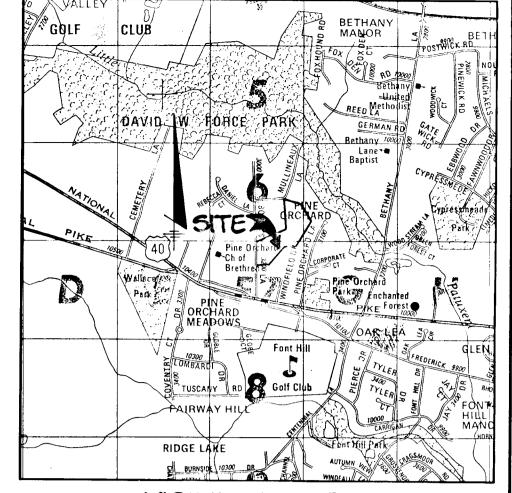
SHEET INDEX DESCRIPTION TITLE SHEET PLAN AND PROFILE OF BOONES LANE PLAN AND PROFILE OF PINE BLUFFS DRIVE DRAINAGE AREA MAP SEDIMENT CONTROL AND GRADING PLAN SEDIMENT CONTROL AND GRADING PLAN STORM WATER MANAGEMENT, AND SEDIMENT CONTROL DETAILS PLAN AND PROFILE OF MULLINEAUX LANE

ROADS, STORM DRAINS & STORMWATER MANAGEMENT

THE BIUFFS AT PINE ORCHARD

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND



GENERAL NOTES

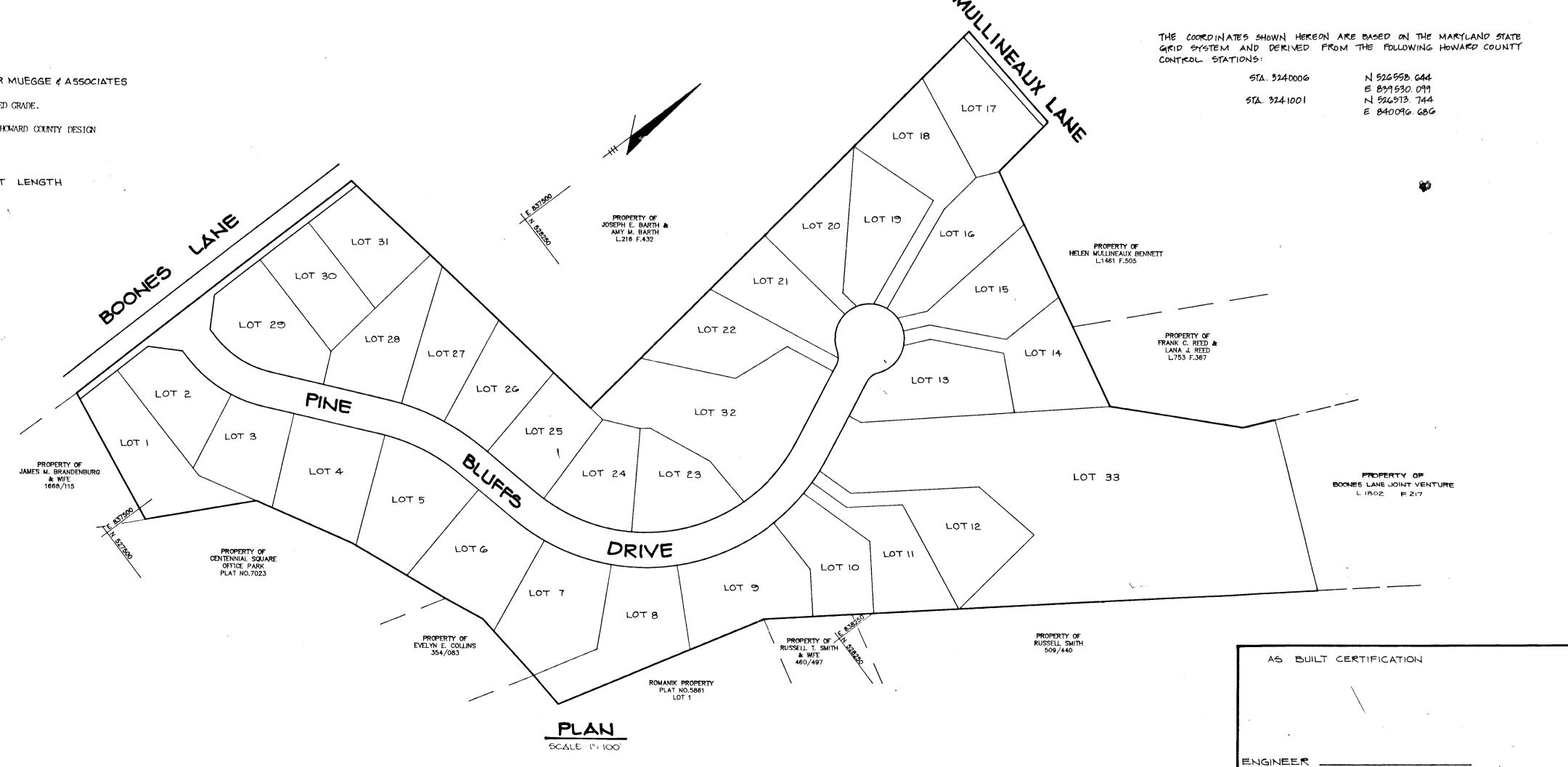
- TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO
- 3. THE CONTRACTOR SHALL TEST PIT'EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON
- 4. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE

BELL TELEPHONE SYSTEM INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)

- 5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 REVISED EDITION.
- 9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- 10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 50' RIGHT-OF-WAYS

- 11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- 12. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- 13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS
- 15. SUBJECT PROPERTY ZONED R-20 PER COMPREHENSIVE ZONING PLAN.
- 16. TOPO TAKEN FROM FIELD RUN SURVEY
- DATED MAY 1988 BY RIEMER MUEGGE & ASSOCIATES
- 17. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- 18. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN
- 19. SEE OFFICE OF PLANNING AND ZONING FILE Nos. 5-88-90, P-89-14, WP-88-122
- 20. WP-88-122 IS A WAIVER FOR EXCEEDING THE ALLOWABLE 1200 FEET LENGTH FOR A CUL-DE-SAC STREET



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DIVISION OF JATE JB. COMMUNITY PLANNING AND LAND DEVELOPMENT APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS REVISION OWNER / DEVELOPER DOONES LANE JOINT VENTURE 8307 MAIN STREET ELLICOTT CITY, MARYLAND 21043 THE BLUFFS AT PINE ORCHARD AREA TAX MAP 17 \$24 ZONE R-20 PARCEL G 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE SHEET RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176 5-15-89 -88-90, P.89-14, WP-88-122 DESIGNED BY : DA.M. DRAWN BY: G.D.H.

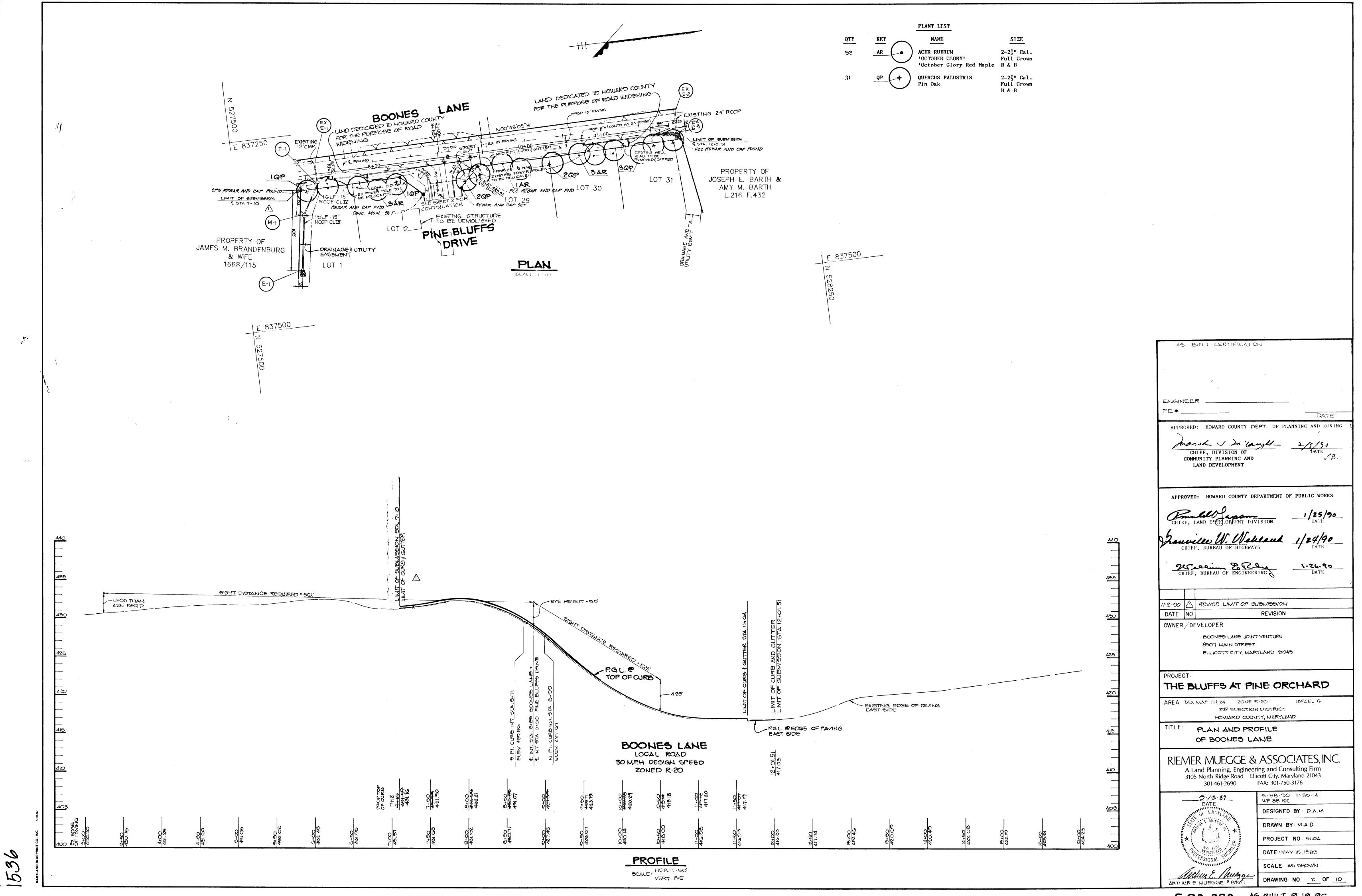
DRAWING NO. 1 OF 10 ARTHUR E. MUEGGE #8707 F-89-229 AS-BUILT 9-19-9C

DATE

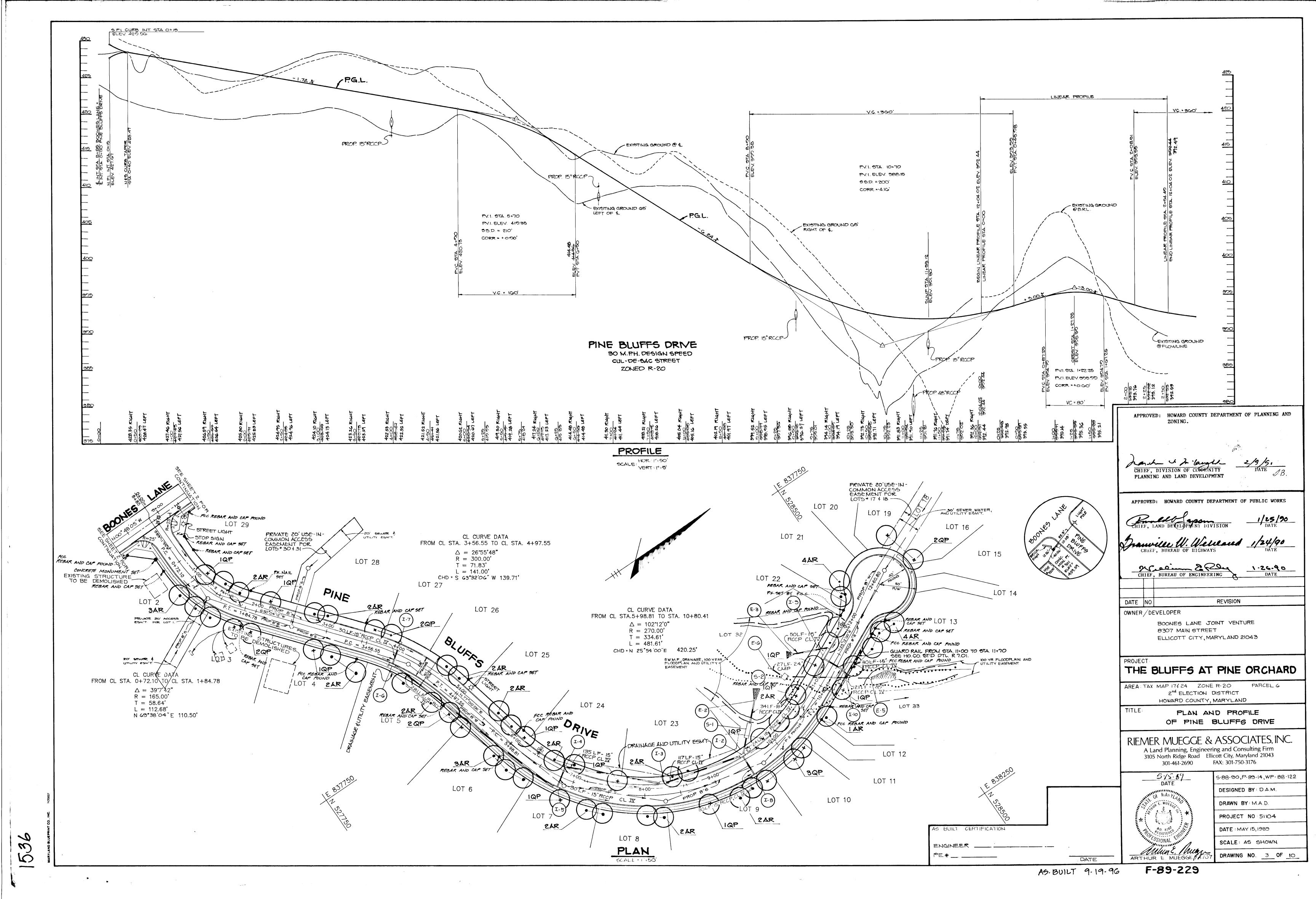
PROJECT NO: 51104

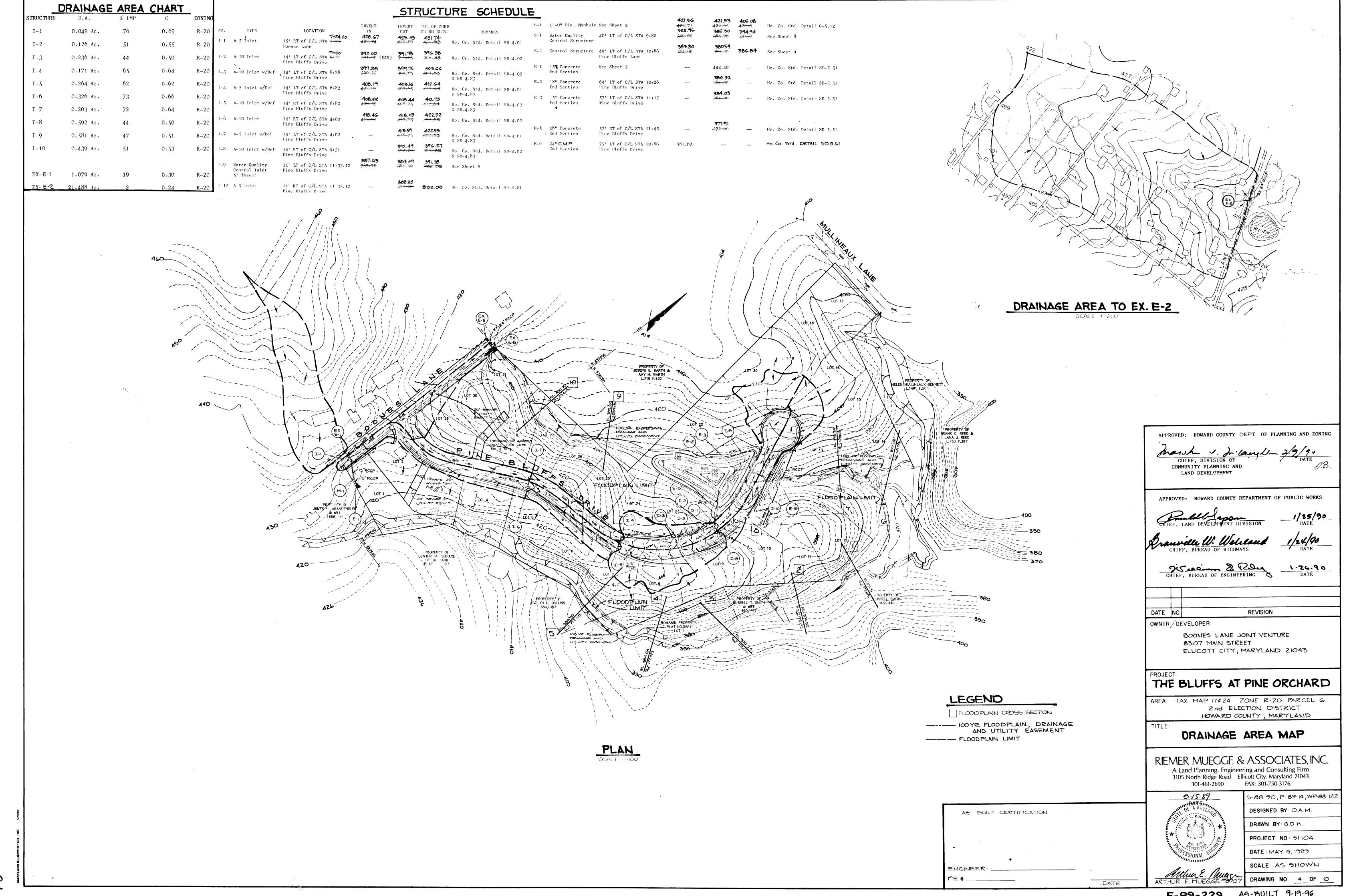
DATE : MAY 15, 1989

SCALE: AS SHOWN



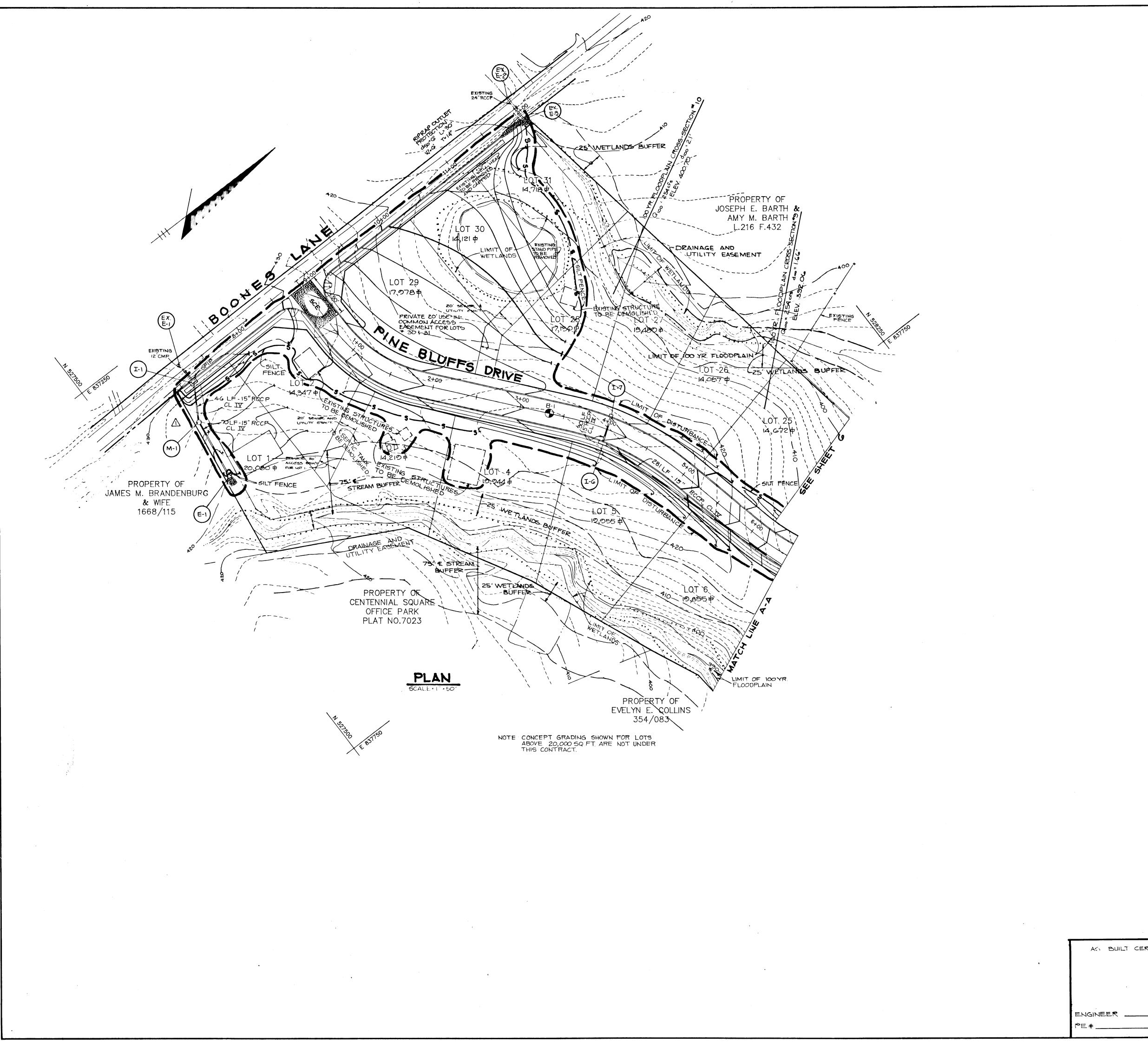
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AS-BUILT 9-19-96 F-89-229



536

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE

Christine a. Richards 9-26-89
DEVELOPER
DEVELOPER

HOWARD SOIL CONSERVATION DISTRICT."

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

5:15.89

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL

hart J. J. Caryll 2/5/50
CHIEF, DIVISION OF DATE COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING

11-2-00 A REVISE GRADING, LIMIT OF CURB & GUTTER AND SIDEWALK REVISION DATE NO.

1-26.90

OWNER / DEVELOPER:

BOONES LANE JOINT VENTURE 8307 MAIN STREET ELLICOTT CITY, MARYLAND 21043

THE BLUFFS AT PINE ORCHARD

AREA: TAX MAP 17424 ZONED-R PARCEL 6 2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND SEDIMENT CONTROL AND GRADING PLAN

RIEMER MUEGGE & ASSOCIATES, INC.

A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176

AC BUILT CERTIFICATION

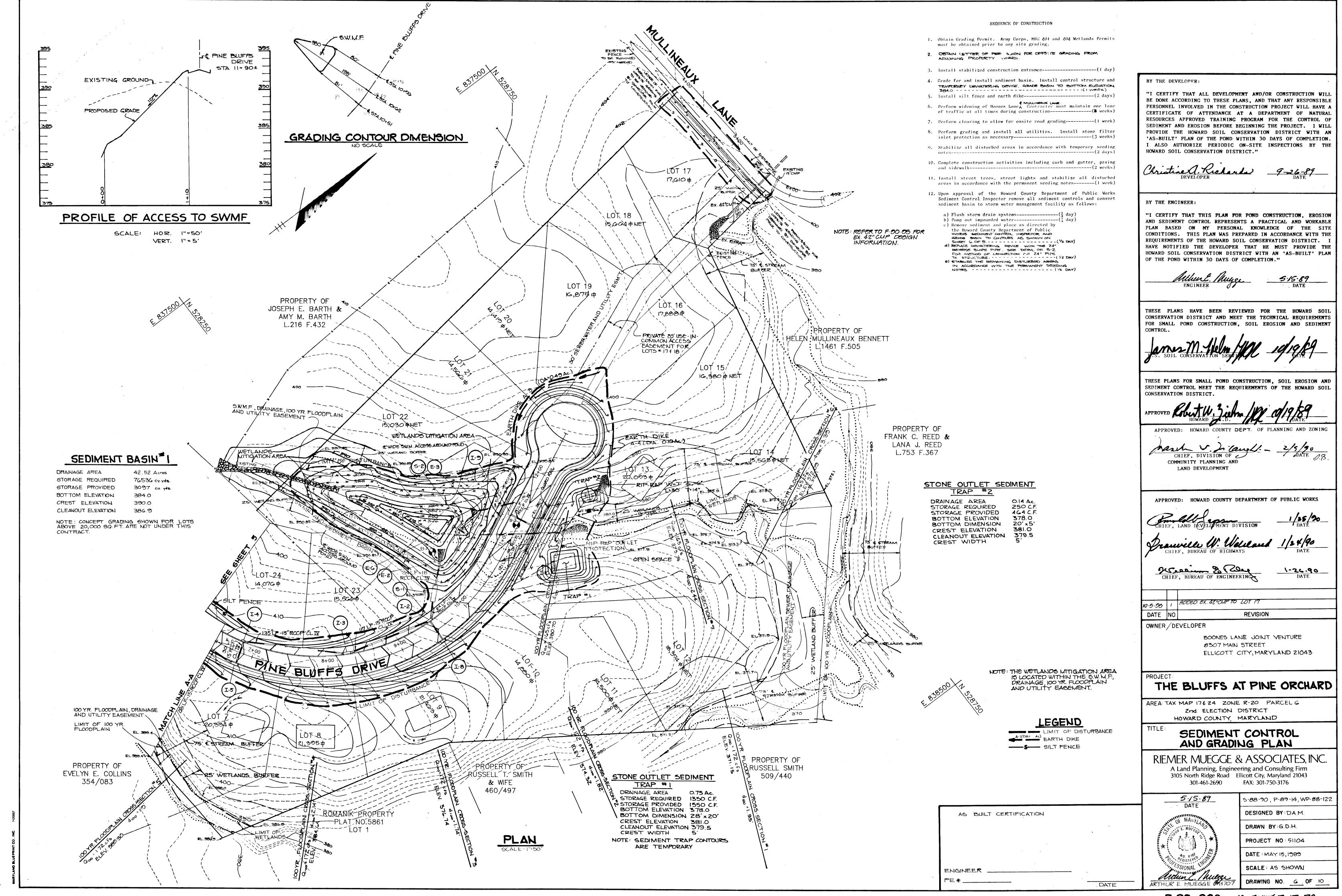
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WP-88-122 DESIGNED BY : D.A.M. DRAWN BY : G.D.H. PROJECT NO:51104

> SCALE: AS SHOWN DRAWING NO. 5 OF 10

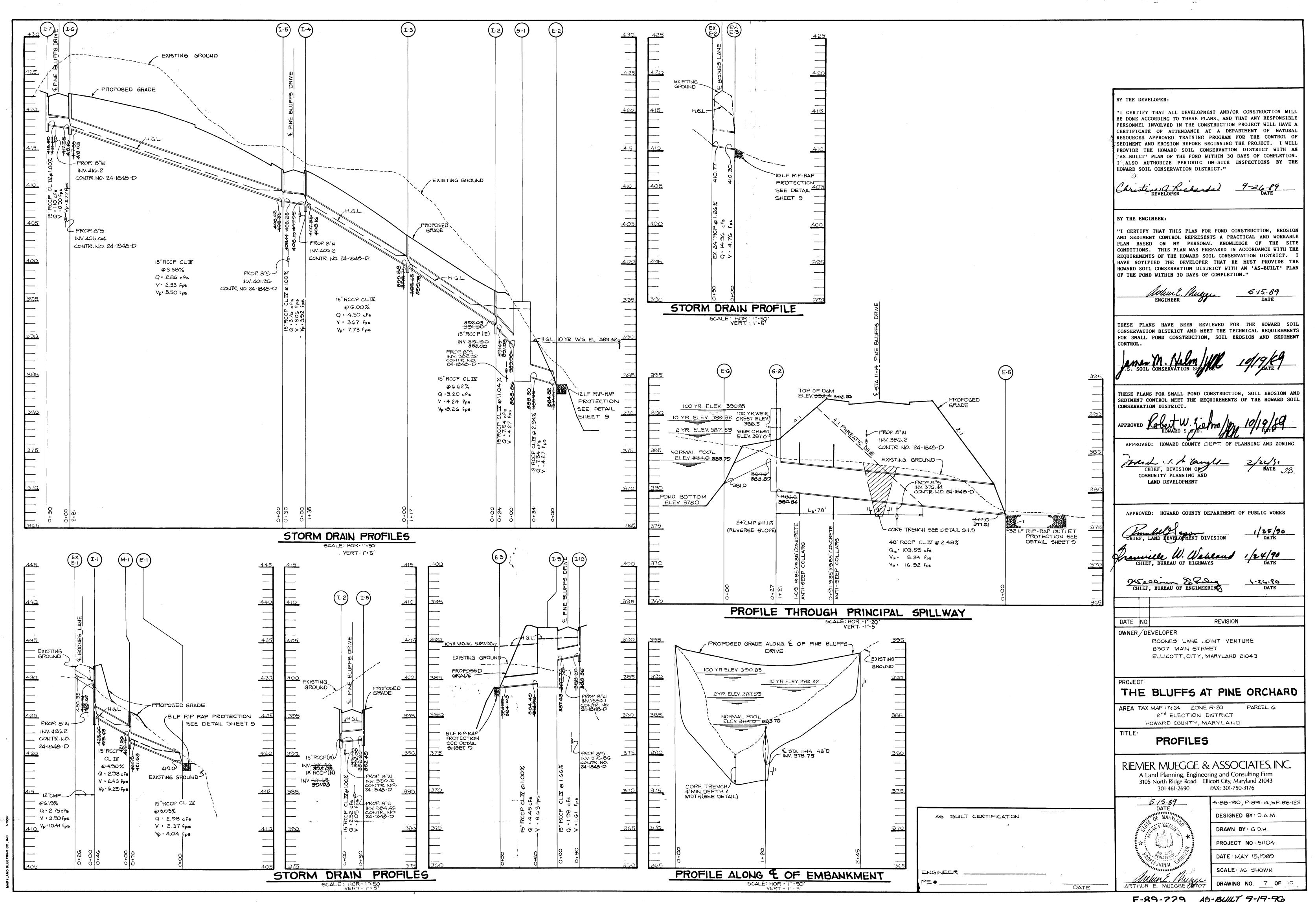
DATE : MAY 15,1989



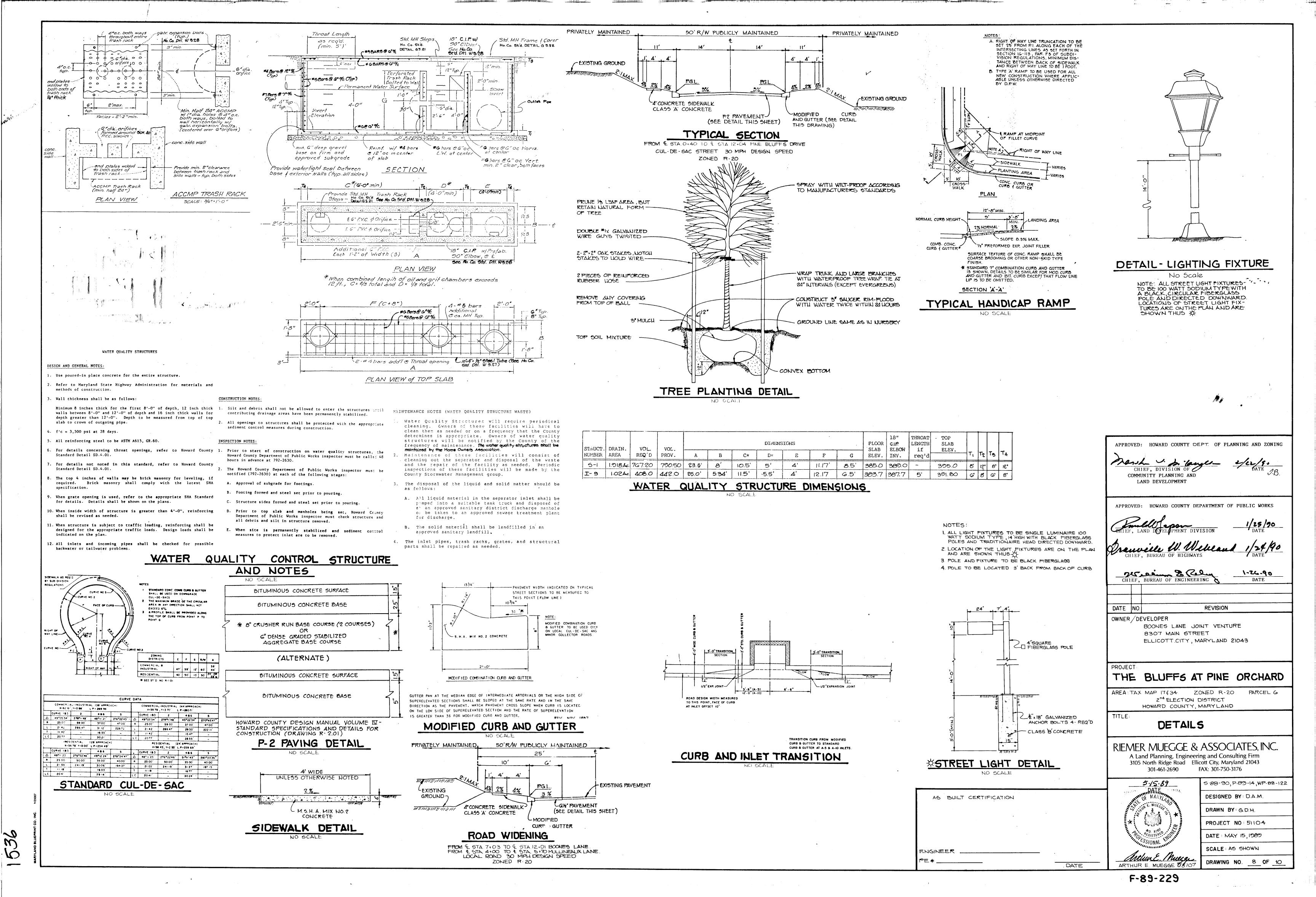
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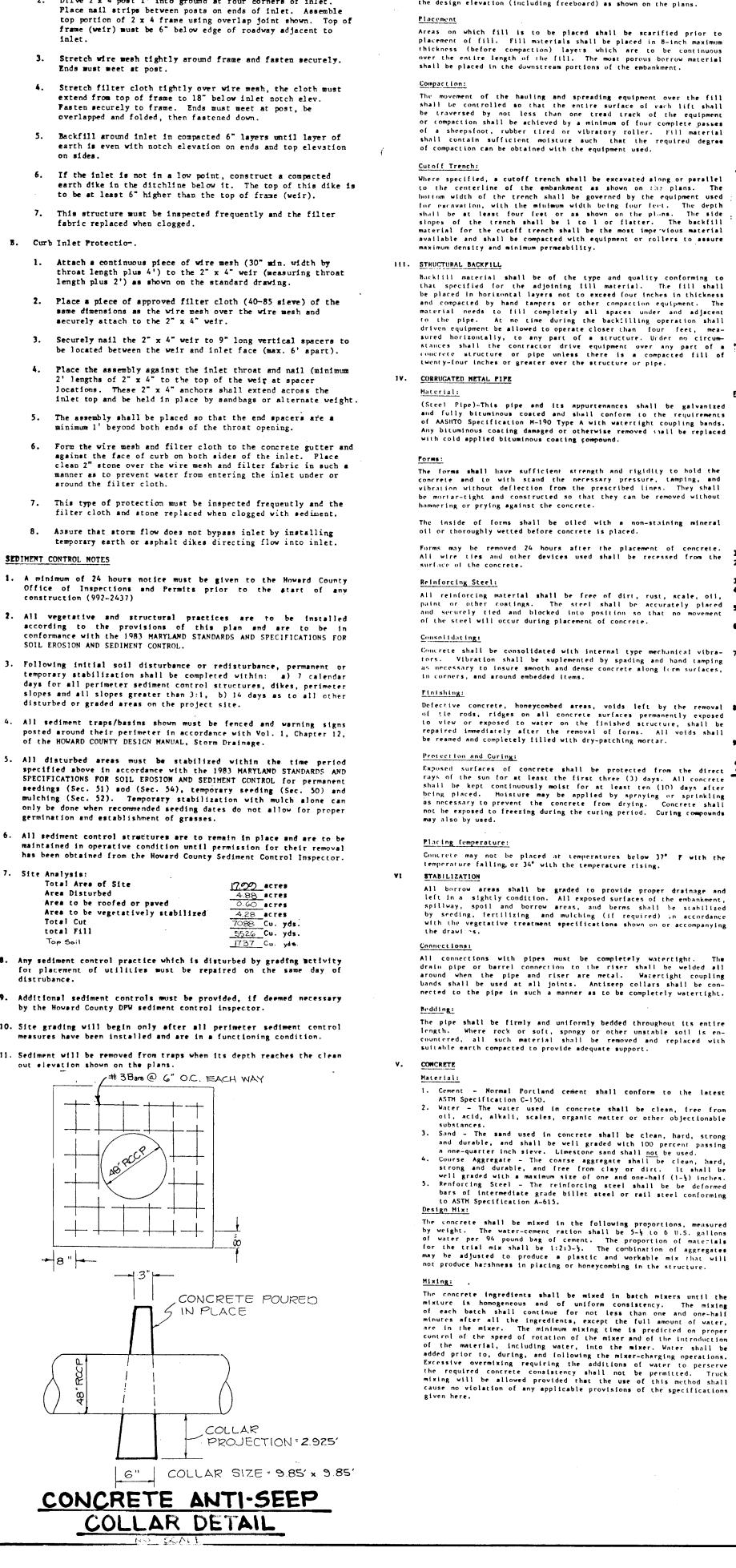


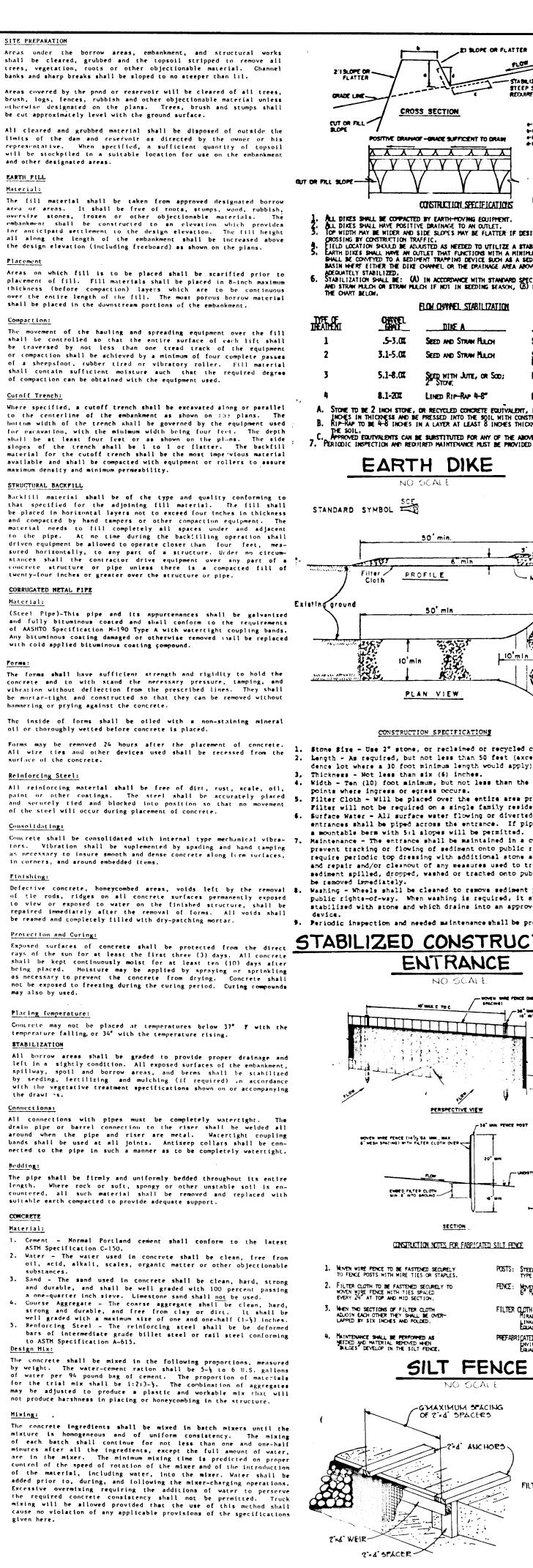
Construction Specifications I. Materials Procedure B. Curb Inlet Protection around the filter cloth. Site Analysis: Total Area of Site Area Disturbed Area to be roofed or paved total Fill TOP Soil out elevation shown on the plans.

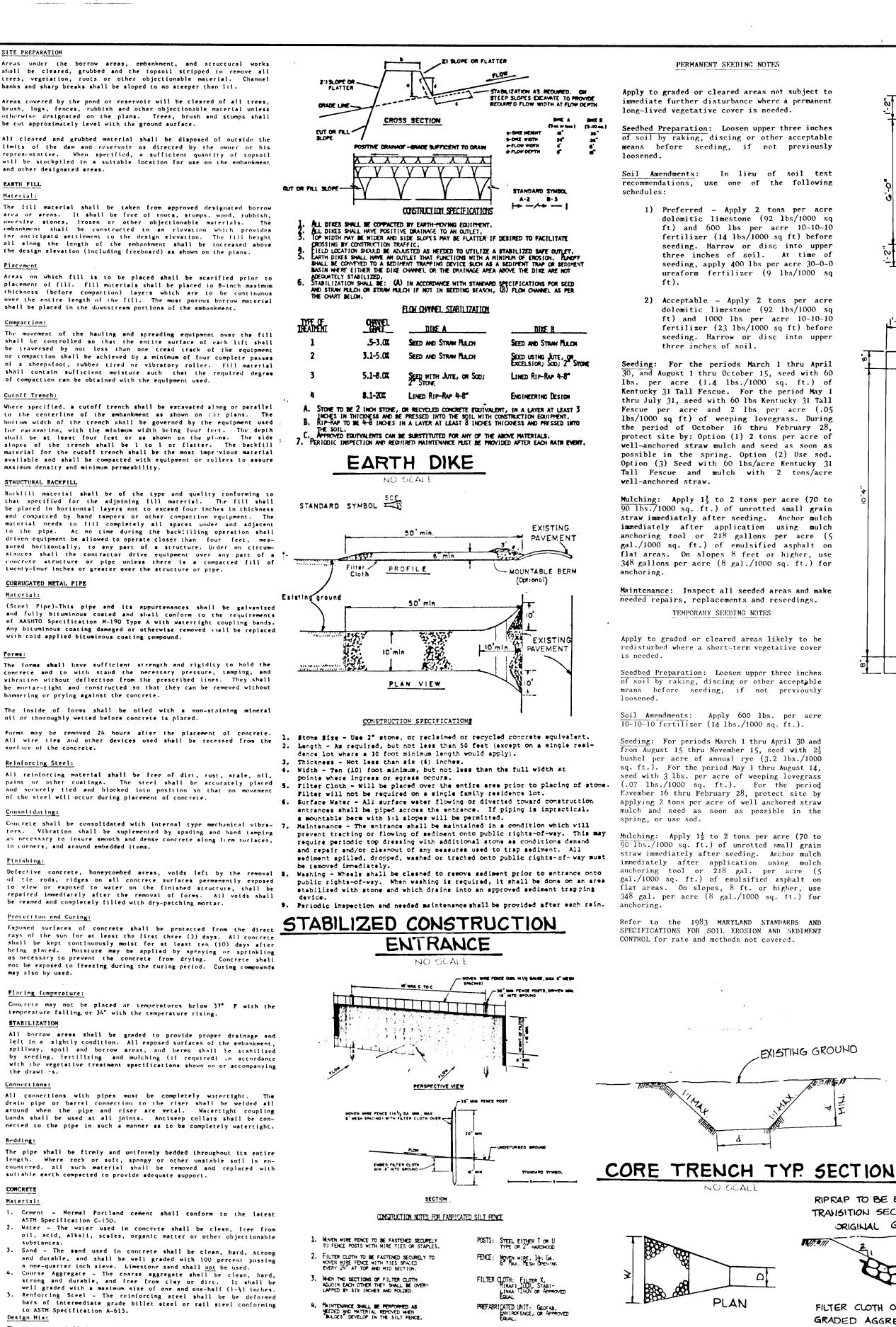
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SITE PREPARATION







of soil by raking, discing or other acceptable means before seeding, if not previously Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 bushel per acre of annual rye (3.2 lbs./100 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the Mulching: Apply $1\frac{1}{2}$ to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal, per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use

348 gal. per acre (8 gal./1000 sq. ft.) for Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SAND BAG OR ALTERNATE WEIGHT

2 ×4" SPACER

ZMINIMUM LENGTH

2×4" WIER -#7 STONE

FILTER CLOTH~

STONE FILTER INLET PROTECTION

EXISTING GROUND

TRANSITION SECTION

FILTER CLOTH OR

EROSION CONTROL FABRIC

TRUCTURE

E-1

E-2

E-3

E-5

SECTION

MEDIUM

STONE DIA

ORIGINAL GRADE >

GRADED AGGREGATE FILTER

12'

OUTLET PROTECTION DETAIL

THKKNESS (T)

THICKNESS

(T)

1.16

1.16

2.25

SECTION A-A

5

TEMPORARY SEEDING NOTES

PERMANENT SEEDING NOTES

1) Preferred - Apply 2 tons per acre

dolomitic limestone (92 lbs/1000 sq

ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before

seeding. Harrow or disc into upper

three inches of soil. At time of

ureaform fertilizer (9 lbs/1000 sq

dolomitic limestone (92 lbs/1000 sq

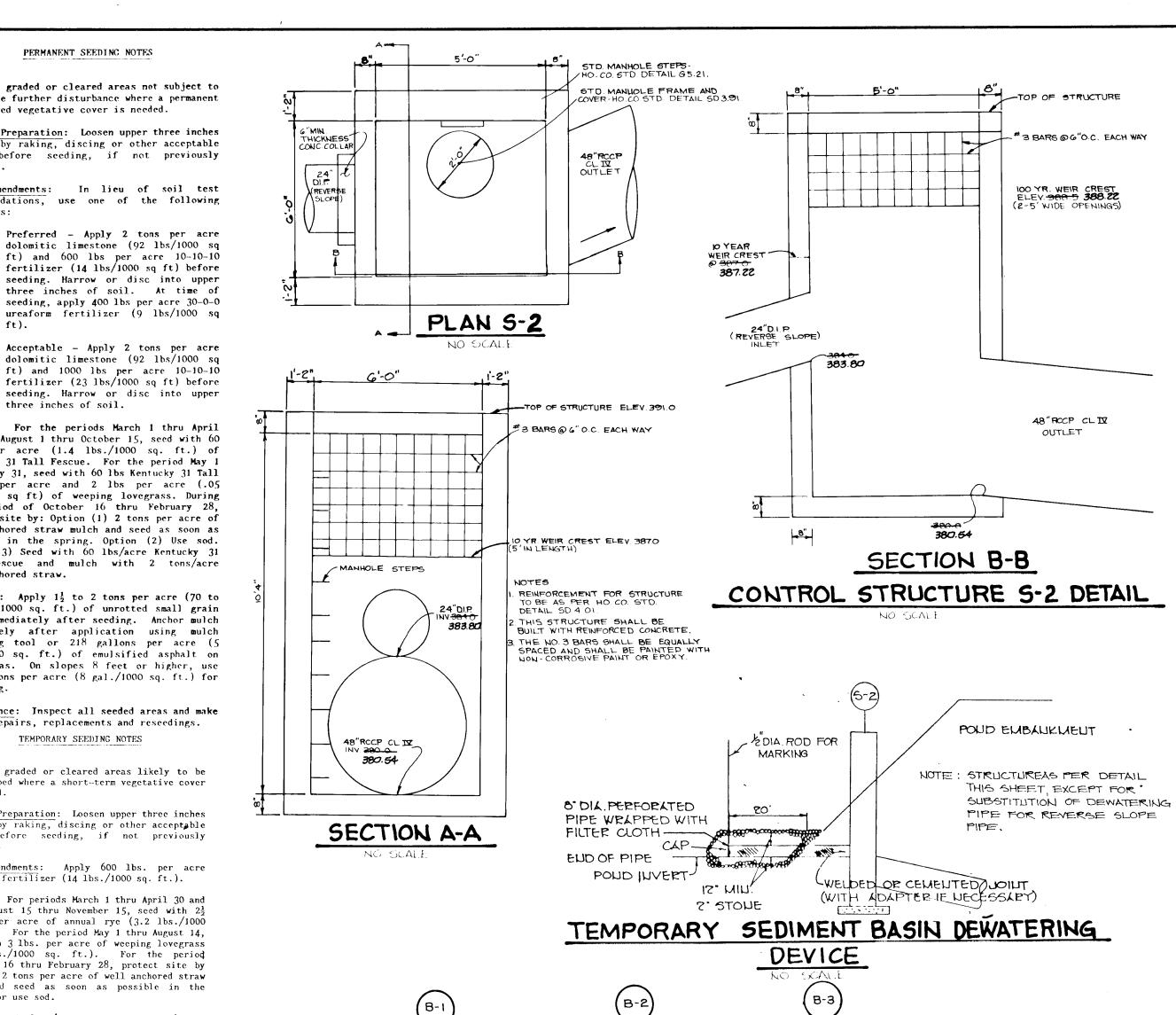
ft) and 1000 lbs per acre 10-10-10

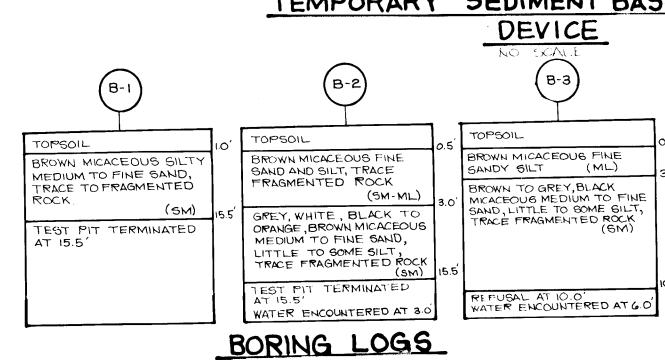
fertilizer (23 lbs/1000 sq ft) before

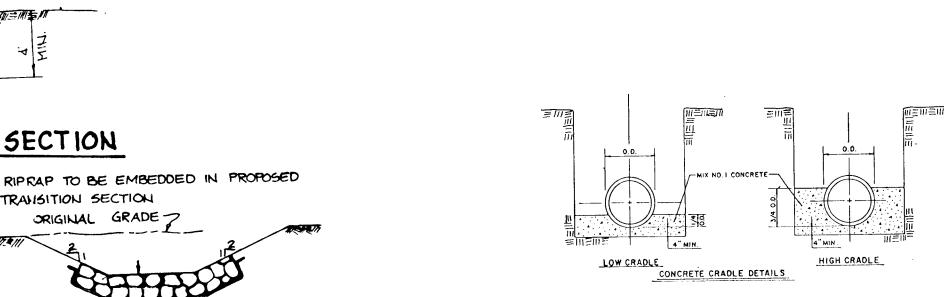
seeding. Harrow or disc into upper

2) Acceptable - Apply 2 tons per acre

three inches of soil.







NOTES ξ - POUR CONCRETE TO UNDISTURBED EARTH. REMOVE SHEETING BEFORE POURING CONCRETE CONCRETE CRADLE DETAIL FOR 48' BARREL, SEE HO. CO. STD.

DETAIL G2.02

AS BUILT CERTIFICATION ENGINEER

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

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THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOTH CONSERVATION DISTRICT.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DIVISION OF DATE 100 COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

1.26.90

REVISION

DATE NO OWNER / DEVELOPER

BOONES LANE JOINT VENTURE 8307 MAIN STREET

THE BLUFFS AT PINE ORCHARD

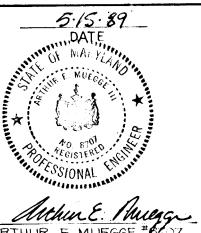
ELLICOTT CITY, MARYLAND 21043

AREA TAX MAP 17634 ZONE R-20 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

STORM WATER MANAGEMENT AND SEDIMENT CONTROL DETAILS

RIEMER MUEGGE & ASSOCIATES, INC

A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 FAX: 301-750-3176 301-461-2690



DESIGNED BY : D. A.M. DRAWN BY: G.D.H. PROJECT NO:51104 C801, 31 YAM: 3TAD

SCALE: AS SHOWN

5-88-90, P-89-14, WP-88-122

